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TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1 Web Page for STN Seminar Schedule - N. America  
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NEWS 3 OCT 07 EPFULL enhanced with full implementation of EPC2000  
NEWS 4 OCT 07 Multiple databases enhanced for more flexible patent number searching  
NEWS 5 OCT 22 Current-awareness alert (SDI) setup and editing enhanced  
NEWS 6 OCT 22 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT Applications  
NEWS 7 OCT 24 CHEMLIST enhanced with intermediate list of pre-registered REACH substances  
NEWS 8 NOV 21 CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present  
NEWS 9 NOV 26 MARPAT enhanced with FSORT command  
NEWS 10 NOV 26 MEDLINE year-end processing temporarily halts availability of new fully-indexed citations  
NEWS 11 NOV 26 CHEMSAFE now available on STN Easy  
NEWS 12 NOV 26 Two new SET commands increase convenience of STN searching  
NEWS 13 DEC 01 ChemPort single article sales feature unavailable  
NEWS 14 DEC 12 GBFULL now offers single source for full-text coverage of complete UK patent families  
NEWS 15 DEC 17 Fifty-one pharmaceutical ingredients added to PS  
  
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 11:03:53 ON 20 DEC 2008

FILE 'REGISTRY' ENTERED AT 11:04:06 ON 20 DEC 2008  
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STRUCTURE FILE UPDATES: 19 DEC 2008 HIGHEST RN 1087349-26-5  
DICTIONARY FILE UPDATES: 19 DEC 2008 HIGHEST RN 1087349-26-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

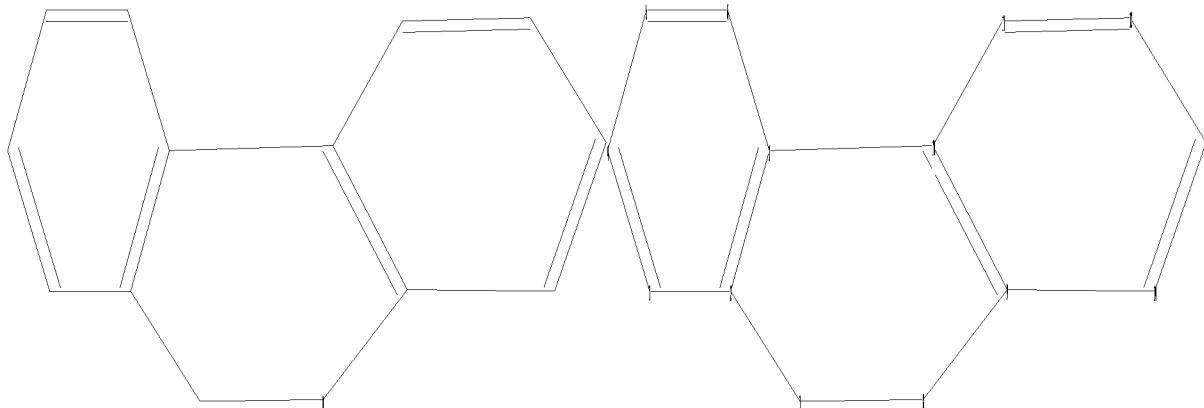
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10574563\Struc 1.str



```

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
ring bonds :
1-2 1-6 1-10 2-3 2-7 3-4 4-5 5-6 7-8 8-9 9-10 9-14 10-11 11-12 12-13
13-14

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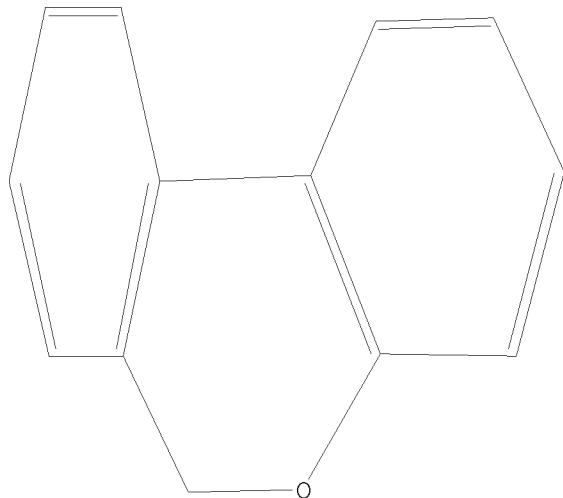
exact/norm bonds :  
1-10 2-7 7-8 8-9

normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom

L1 STRUCTURE UPLOADED

=> d  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> l1  
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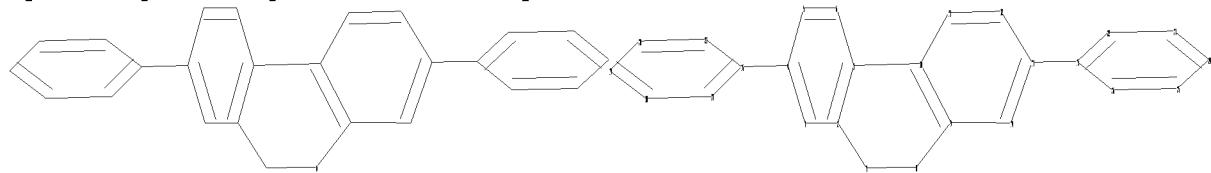
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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 653103 TO 674897  
PROJECTED ANSWERS: 11110 TO 14122

L2 38 SEA SSS SAM L1

=>

Uploading C:\Program Files\Stnexp\Queries\10574563\Struc 2.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23  
24 25 26

chain bonds :

4-16 13-15

ring bonds :

1-2 1-6 1-10 2-3 2-7 3-4 4-5 5-6 7-8 8-9 9-10 9-14 10-11 11-12 12-13  
13-14 15-22 15-26 16-17 16-21 17-18 18-19 19-20 20-21 22-23 23-24 24-25  
25-26

exact/norm bonds :

1-10 2-7 7-8 8-9

exact bonds :

4-16 13-15

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14 15-22 15-26  
16-17 16-21 17-18 18-19 19-20 20-21 22-23 23-24 24-25 25-26

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom

L3 STRUCTURE UPLOADED

=> d

L3 HAS NO ANSWERS

L3 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> 13

10574563.trn

SAMPLE SEARCH INITIATED 11:06:01 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1200 TO ITERATE

100.0% PROCESSED 1200 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 21922 TO 26078  
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> 13 full  
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FULL SCREEN SEARCH COMPLETED - 23359 TO ITERATE

100.0% PROCESSED 23359 ITERATIONS 1 ANSWERS  
SEARCH TIME: 00.00.01

L5 1 SEA SSS FUL L3

=> file caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
SESSION  
FULL ESTIMATED COST 179.28 179.49

FILE 'CAPLUS' ENTERED AT 11:06:07 ON 20 DEC 2008  
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FILE COVERS 1907 - 20 Dec 2008 VOL 149 ISS 26  
FILE LAST UPDATED: 19 Dec 2008 (20081219/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> 15  
L6 1 L5

10574563.trn

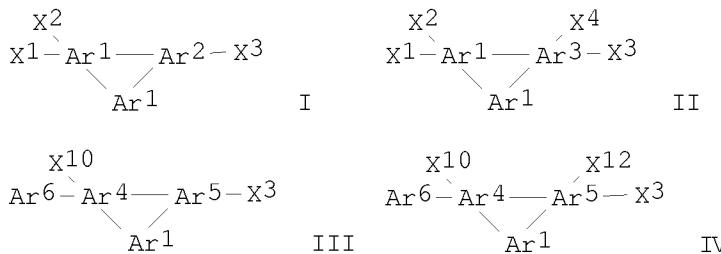
=> d ibib abs hitstr 1

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:324147 CAPLUS  
 DOCUMENT NUMBER: 142:392812  
 TITLE: Aromatic compounds having condensationable functional groups useful as monomers  
 INVENTOR(S): Kobayashi, Satoshi; Mikami, Satoshi  
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan  
 SOURCE: PCT Int. Appl., 91 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005033090	A1	20050414	WO 2004-JP15001	20041005
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005132829	A	20050526	JP 2004-292337	20041005
US 20070063190	A1	20070322	US 2006-574563	20060404
PRIORITY APPLN. INFO.:			JP 2003-346688	A 20031006
			WO 2004-JP15001	W 20041005

OTHER SOURCE(S): MARPAT 142:392812

GI



AB The present invention relates to aromatic compds. I, II, III, and IV, wherein Ar1, Ar3 = tetravalent aromatic hydrocarbon or tetravalent heterocyclic group; Ar2, Ar4, Ar5, Ar6, Ar7 = trivalent aromatic hydrocarbon or trivalent heterocyclic group; A1 = Z1, Z2Z3 or Z4:Z5; Z1, Z2, Z3 = O or S; Z4, Z5 = N, B, or P; and X1, X2, X3, X4, X9, X10, X11, X12 = halogen atom. Thus,

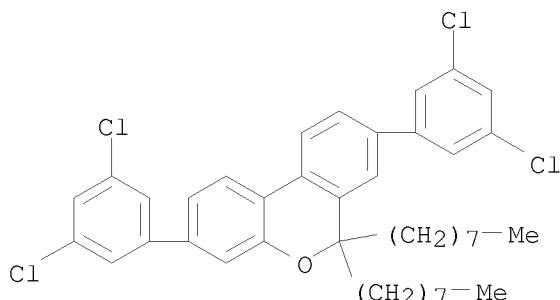
7.0 g 2,2',5,5'-tetramethoxy-1,1'-biphenyl was reacted with 6.8 g N-chlorosuccinimide, treated with boron tribromide, 4.8 g of the resulting 4,4'-dichloro-2,2',5,5'-tetrahydroxy-1,1'-biphenyl was treated with o-dichlorobenzene for 13 h to give 3,7-dichloro-2,8-dibenzofurandiol.

IT 849693-49-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(monomer; aromatic compds. having condensable functional groups useful as monomers)

RN 849693-49-8 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-bis(3,5-dichlorophenyl)-6,6-dioctyl- (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		6.41	185.90
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		SINCE FILE	TOTAL
CA SUBSCRIBER PRICE		ENTRY	SESSION
		-0.80	-0.80

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STRUCTURE FILE UPDATES: 19 DEC 2008 HIGHEST RN 1087349-26-5  
DICTIONARY FILE UPDATES: 19 DEC 2008 HIGHEST RN 1087349-26-5

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

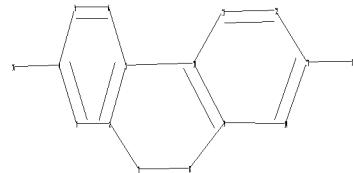
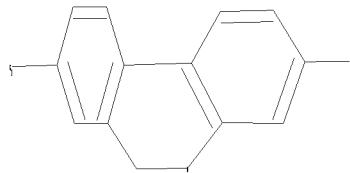
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10574563\Struc 3.str



```
chain nodes :  
15 16  
ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 12 13 14  
chain bonds :  
4-16 13-15  
ring bonds :  
1-2 1-6 1-10 2-3 2-7 3-4 4-5 5-6 7-8 8-9 9-10 9-14 10-11 11-12 12-13  
13-14
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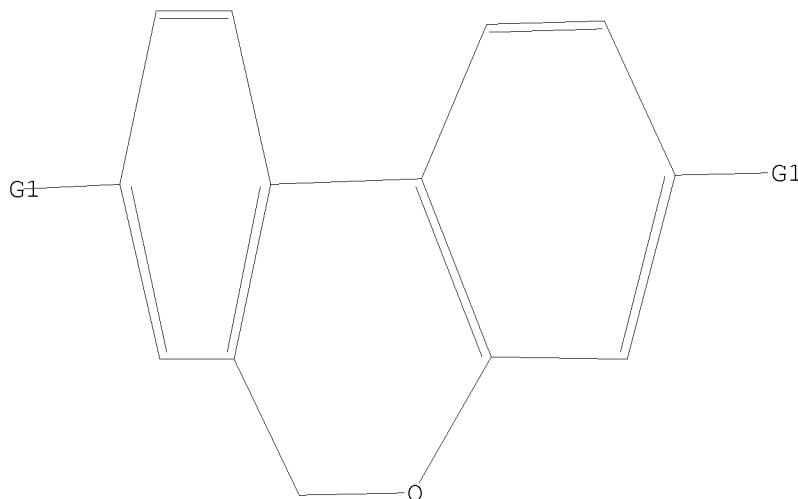
exact/norm bonds :  
1-10 2-7 4-16 7-8 8-9 13-15  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14

G1:Cb,Cy,Hy

Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS

L7 STRUCTURE UPLOADED

=> d  
L7 HAS NO ANSWERS  
L7 STR



G1 Cb,Cy,Hy

Structure attributes must be viewed using STN Express query preparation.

=> 17  
SAMPLE SEARCH INITIATED 11:07:54 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 33200 TO ITERATE  
  
6.0% PROCESSED 2000 ITERATIONS 0 ANSWERS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01  
  
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 653103 TO 674897

PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> 17 full  
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FULL SCREEN SEARCH COMPLETED - 662509 TO ITERATE

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100.0% PROCESSED 662509 ITERATIONS ( 1 INCOMPLETE) 11 ANSWERS  
SEARCH TIME: 00.00.25

L9 11 SEA SSS FUL L7

=> file caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 178.82 364.72  
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ENTRY SESSION  
CA SUBSCRIBER PRICE 0.00 -0.80

FILE 'CAPLUS' ENTERED AT 11:08:30 ON 20 DEC 2008  
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FILE COVERS 1907 - 20 Dec 2008 VOL 149 ISS 26  
FILE LAST UPDATED: 19 Dec 2008 (20081219/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

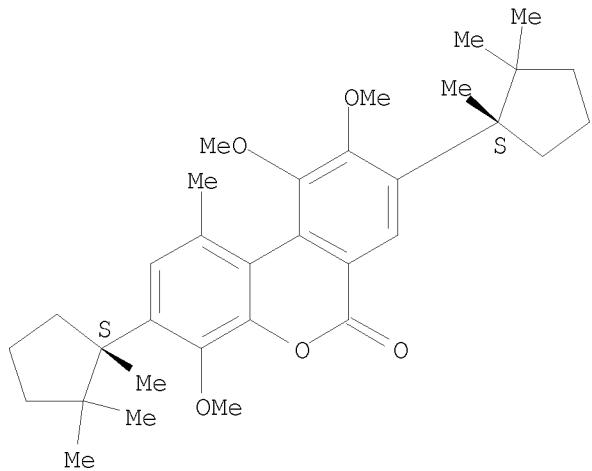
=> 19  
L10 9 L9

=> d ibib abs hitstr 1-9

L10 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

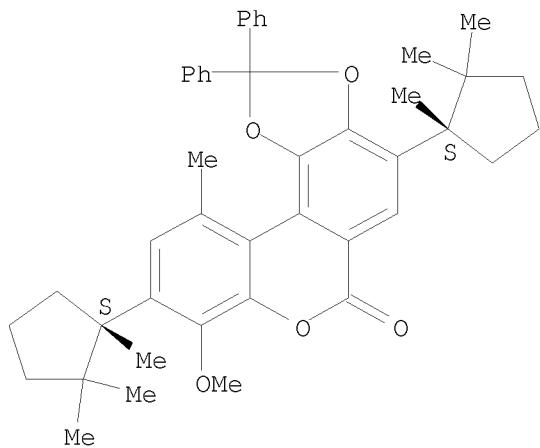
ACCESSION NUMBER: 2008:1383566 CAPLUS  
DOCUMENT NUMBER: 149:555080  
TITLE: The intramolecular Heck reaction  
AUTHOR(S): Link, J. T.  
CORPORATE SOURCE: Abbott Laboratories, Abbott Park, IL, USA  
SOURCE: Organic Reactions (Hoboken, NJ, United States) (2002),  
60, No pp. given  
CODEN: ORHNBA  
URL: <http://www3.interscience.wiley.com/cgi-bin/mrwhome/107610747/HOME>  
PUBLISHER: John Wiley & Sons, Inc.  
DOCUMENT TYPE: Journal; General Review; (online computer file)  
LANGUAGE: English  
AB A review of the article The intramol. Heck reaction.  
IT 304859-78-7P 304859-85-6P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(The Intramol. Heck Reaction)  
RN 304859-78-7 CAPLUS  
CN 6H-Dibenzo[b,d]pyran-6-one, 4,9,10-trimethoxy-1-methyl-3,8-bis[(1S)-1,2,2-trimethylcyclopentyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 304859-85-6 CAPLUS  
CN 6H-[1]Benzopyrano[4,3-e]-1,3-benzodioxol-6-one,  
8-methoxy-11-methyl-2,2-diphenyl-4,9-bis[(1S)-1,2,2-trimethylcyclopentyl]-  
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L10 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2006:212535 CAPLUS  
 DOCUMENT NUMBER: 144:301737  
 TITLE: Polymer luminescent material composition and polymer light-emitting devices  
 INVENTOR(S): Uetani, Yasunori; Shirasawa, Nobuhiko; Nakanishi, Hirotoshi  
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan  
 SOURCE: PCT Int. Appl., 82 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006025290	A1	20060309	WO 2005-JP15606	20050823
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
GB 2432838	A	20070606	GB 2007-5585	20050823
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CN 101048465	A	20071003	CN 2005-80036762	20050823
JP 2006097008	A	20060413	JP 2005-250978	20050831
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KR 2007061840	A	20070614	KR 2007-707064	20070328
PRIORITY APPLN. INFO.:			JP 2004-251725	A 20040831

JP 2004-335575 A 20041119  
 WO 2005-JP15606 W 20050823

OTHER SOURCE(S): MARPAT 144:301737  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB A polymer luminescent material composition is characterized by comprising a polymer luminescent material and a compound selected from among compds. of the following general formulas I to IV: wherein X is an atom or atomic group forming a 5- or 6-membered ring together with the four carbon atoms constituting the 2 benzene rings; and Q and T are each independently H, halo, alkyl, alkyloxy, alkylthio, aryl, aryloxy, arylthio, arylalkyl, arylalkyloxy, arylalkylthio, alkenyl, alkynyl, arylalkenyl, arylalkynyl, substituted silyloxy, substituted silylthio, substituted silylaminio, substituted amino, amido, an acid imide group, acyloxy, a mono-ovalent heterocyclic group, heteroaryloxy, heteroarylthio, cyano, or nitro.

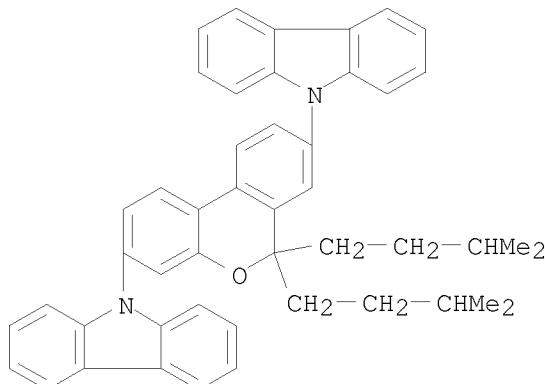
IT 878557-66-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(polymer luminescent material composition and polymer light-emitting devices)

RN 878557-66-5 CAPLUS

CN 9H-Carbazole, 9,9'-[6,6-bis(3-methylbutyl)-6H-dibenzo[b,d]pyran-3,8-diy]bis- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:99991 CAPLUS

DOCUMENT NUMBER: 144:172274

TITLE: Polymeric compounds for thin polymer film devices

INVENTOR(S): Ueda, Masato

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

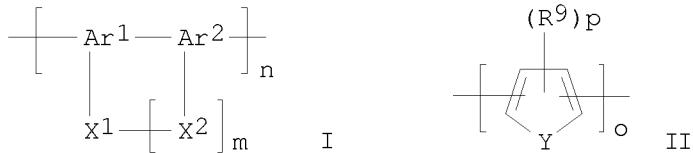
SOURCE: PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006011643	A1	20060202	WO 2005-JP14156	20050727
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JP 2006063334	A	20060309	JP 2005-217025	20050727
DE 112005001823	T5	20070606	DE 2005-112005001823	20050727
GB 2432837	A	20070606	GB 2007-3688	20050727
GB 2432837	B	20080820		
CN 1989169	A	20070627	CN 2005-80025103	20050727
US 20080003422	A1	20080103	US 2007-572513	20070123
KR 2007047314	A	20070504	KR 2007-704336	20070223
PRIORITY APPLN. INFO.:			JP 2004-223441	A 20040730
			WO 2005-JP14156	W 20050727

GI



AB Title polymeric compds. with number average mol. weight 103-108 comprise repeating

units I and II, wherein Ar1, Ar2 = independently trivalent aromatic hydrocarbon group or trivalent heterocyclic group; X1, X2 = independently O, S, C(:O), S(:O), or SO<sub>2</sub> (X1 ≠ X2); Y = O or S; R9 = halogen, alkyl, or alkyloxy; m = 0 or 1; n, o = 1-6 integer; and p = 0-2 integer. Thus, 6.65 g 2,7-dibromofluorenone was dissolved in 140 mL 1:1 mixture of trifluoroacetic acid/chloroform, sodium perborate monohydrate was added therein, stirred for 20 h, 1.00 g of the resulting 3,8-dibromo-6H-dibenzo[b,d]pyran-6-one was stirred with octyl magnesium bromide, ring-closed with p-toluenesulfonic acid monohydrate, and reacted with bis(pinacolato)diborane to give 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6H-dibenzo[b,d]pyran, 0.62 g of which was reacted with 0.29 g 5,5'-dibromo-2,2'-bithiophene in the presence of tetrakis(triphenylphosphine)palladium for 16.3 h to give a copolymer, 0.2%

solution of the resulting copolymer in chloroform was applied on a poly(3,4-ethylenedioxythiophene)/polystyrenesulfonic acid-coated ITO/glass plate, lithium fluoride, calcium, and aluminum were deposited thereon in this order to give a thin film device, showing short-circuit current 43  $\mu$ A/cm<sup>2</sup> and open circuit voltage 1.75 V.

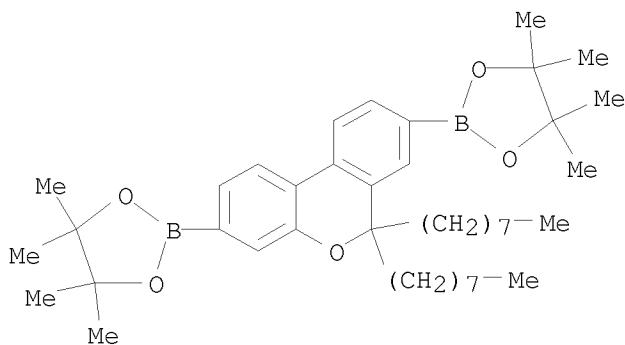
IT 688013-75-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(monomer; polymeric compds. for thin polymer film devices)

RN 688013-75-4 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-diethyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)



IT 874657-12-2P 874657-15-5P

RL: DEV (Device component use); IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polymeric compds. for thin polymer film devices)

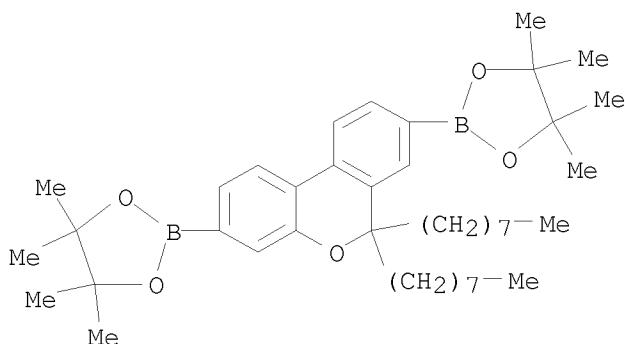
RN 874657-12-2 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-diethyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-, polymer with 5,5'-dibromo-2,2'-bithiophene (9CI) (CA INDEX NAME)

CM 1

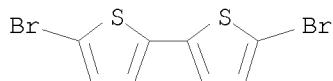
CRN 688013-75-4

CMF C41 H64 B2 O5



CM 2

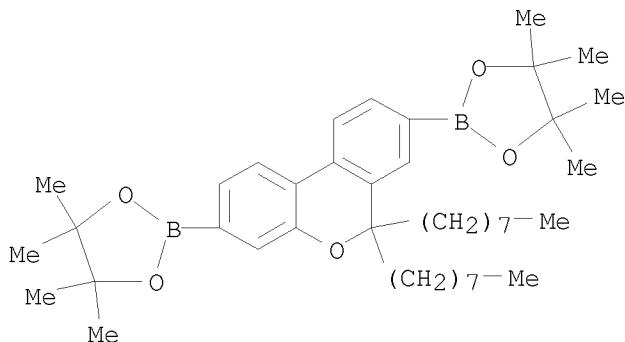
CRN 4805-22-5  
CMF C8 H4 Br2 S2



RN 874657-15-5 CAPLUS  
CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-, polymer with 2,2'-(1,2-ethenediyl)bis[5-bromothiophene] (9CI) (CA INDEX NAME)

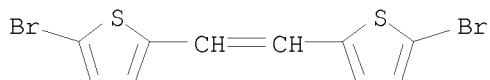
CM 1

CRN 688013-75-4  
CMF C41 H64 B2 O5



CM 2

CRN 374684-22-7  
CMF C10 H6 Br2 S2



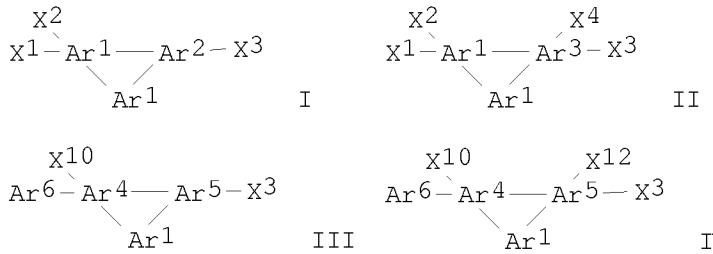
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2005:324147 CAPLUS  
DOCUMENT NUMBER: 142:392812  
TITLE: Aromatic compounds having condensationable functional

INVENTOR(S): groups useful as monomers  
Kobayashi, Satoshi; Mikami, Satoshi  
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan  
SOURCE: PCT Int. Appl., 91 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005033090	A1	20050414	WO 2004-JP15001	20041005
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005132829	A	20050526	JP 2004-292337	20041005
US 20070063190	A1	20070322	US 2006-574563	20060404
PRIORITY APPLN. INFO.:			JP 2003-346688	A 20031006
			WO 2004-JP15001	W 20041005

OTHER SOURCE(S): MARPAT 142:392812  
GI



AB The present invention relates to aromatic compds. I, II, III, and IV, wherein Ar1, Ar3 = tetravalent aromatic hydrocarbon or tetravalent heterocyclic group; Ar2, Ar4, Ar5, Ar6, Ar7 = trivalent aromatic hydrocarbon or trivalent heterocyclic group; A1 = Z1, Z2Z3 or Z4:Z5; Z1, Z2, Z3 = O or S; Z4, Z5 = N, B, or P; and X1, X2, X3, X4, X9, X10, X11, X12 = halogen atom. Thus, 7.0 g 2,2',5,5'-tetramethoxy-1,1'-biphenyl was reacted with 6.8 g N-chlorosuccinimide, treated with boron tribromide, 4.8 g of the resulting 4,4'-dichloro-2,2',5,5'-tetrahydroxy-1,1'-biphenyl was treated with o-dichlorobenzene for 13 h to give 3,7-dichloro-2,8-dibenzofurandiol.

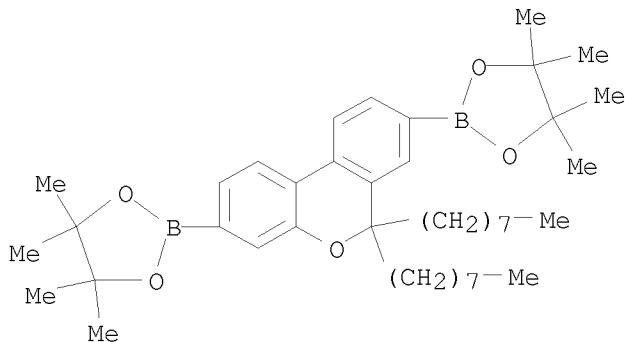
IT 688013-75-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(aromatic compds. having condensable functional groups useful as monomers)

RN 688013-75-4 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl) - (CA INDEX NAME)

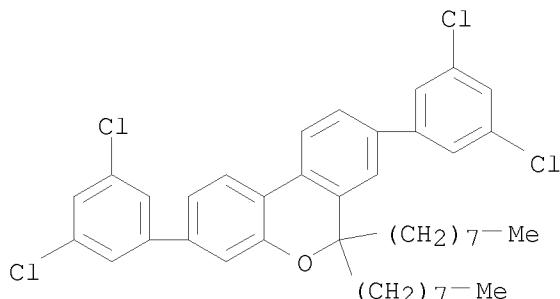


IT 849693-49-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(monomer; aromatic compds. having condensationable functional groups useful as monomers)

RN 849693-49-8 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-bis(3,5-dichlorophenyl)-6,6-dioctyl- (CA INDEX NAME)



REFERENCE COUNT:

16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:1128942 CAPLUS

DOCUMENT NUMBER: 142:82001

TITLE: Color conversion film for organic electroluminescent device

INVENTOR(S): Iimura, Kiyotoshi; Doi, Shuji

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

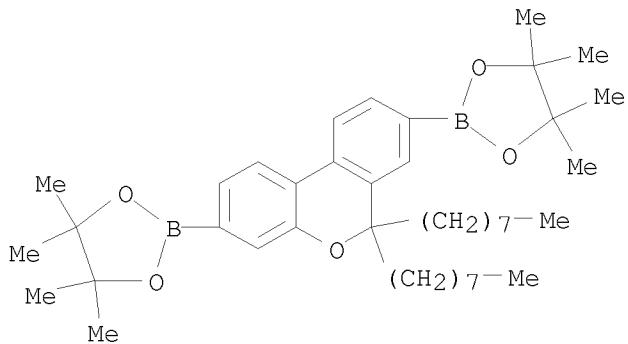
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

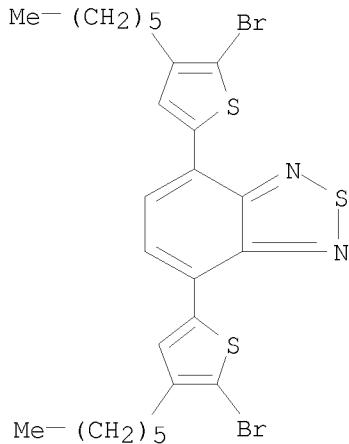
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004362910	A	20041224	JP 2003-159000	20030604
PRIORITY APPLN. INFO.:				
AB The invention relates to a color conversion film, suited for use in an organic electroluminescent device, comprising a fluorescent and/or phosphorescent conjugated polymer.				
IT 811819-84-8	RL: DEV (Device component use); USES (Uses) (color conversion film for organic electroluminescent device)			
RN 811819-84-8	CAPLUS			
CN 2,1,3-Benzothiadiazole, 4,7-bis(5-bromo-4-hexyl-2-thienyl)-, polymer with 6,6-diethyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6H-dibenzo[b,d]pyran (9CI) (CA INDEX NAME)				
CM 1				
CRN 688013-75-4				
CMF C41 H64 B2 O5				



CM 2

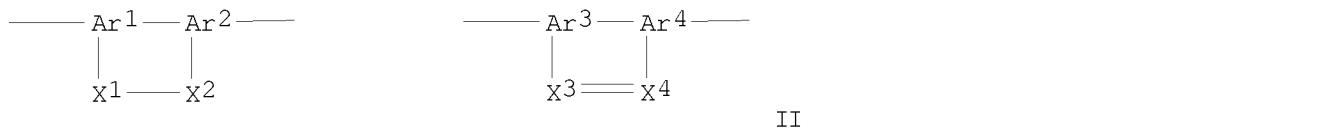
CRN 444579-39-9  
CMF C26 H30 Br2 N2 S3



L10 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2004:392502 CAPLUS  
 DOCUMENT NUMBER: 140:415047  
 TITLE: High-molecular compounds and polymer light-emitting devices made by using the same  
 INVENTOR(S): Doi, Shuji; Kobayashi, Satoshi; Noguchi, Takanobu  
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan  
 SOURCE: PCT Int. Appl., 131 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004039859	A1	20040513	WO 2003-JP12697	20031003
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004168999	A	20040617	JP 2003-343244	20031001
AU 2003268752	A1	20040525	AU 2003-268752	20031003
EP 1571170	A1	20050907	EP 2003-748697	20031003
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 20080138651	A1	20080612	US 2005-532937	20050428
PRIORITY APPLN. INFO.:			JP 2002-315516	A 20021030
			WO 2003-JP12697	W 20031003

OTHER SOURCE(S): MARPAT 140:415047  
 GI



AB The invention relates to a high-mol. compds. comprising repeating units represented by the general formula I or II and having number-average mol. wts. of

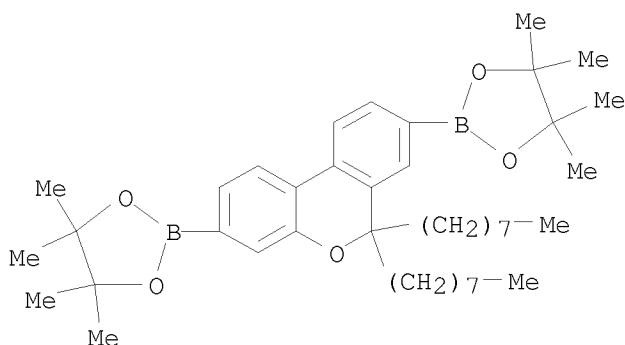
103-108 in terms of polystyrene: (1) [wherein Ar1 and Ar2 are each independently a trivalent aromatic hydrocarbon group or a trivalent heterocyclic group; and X1 and X2 are each independently O, S, C(=O), S(=O), SO<sub>2</sub>, C(R1)(R2), Si(R3)(R4), N(R5), B(R6), P(R7), or P(=O)(R8), with the provisos that X1 and X2 must not be the same and that X1 and Ar2 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar1, and X2 and Ar1 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar2] (2) [wherein Ar3 and Ar4 are each independently a trivalent aromatic hydrocarbon group or a trivalent heterocyclic group; and X3 and X4 are each independently N, B, P, C(R9), or Si(R10), with the provisos that X3 and X4 must not be the same and that X3 and Ar4 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar3, and X4 and Ar3 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar4].

IT 688013-75-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(high-mol. compds. and polymer light emitting devices made by using the same)

RN 688013-75-4 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2001:848926 CAPLUS  
DOCUMENT NUMBER: 136:119162

TITLE: Preparation and characterization of a new solvent-free polymer electrolyte based on spiroketal structure  
AUTHOR(S): Tsutsumi, Hiromori; Shirotani, Rumiko; Onimura, Kenjiro; Oishi, Tsutomu  
CORPORATE SOURCE: Department of Applied Chemistry and Chemical Engineering, Faculty of Engineering, Yamaguchi University, Yamaguchi, 755-8611, Japan  
SOURCE: Electrochemical and Solid-State Letters (2001), 4(12), A195-A196  
CODEN: ESLEF6; ISSN: 1099-0062  
PUBLISHER: Electrochemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Solvent-free solid polymer electrolytes based on spiropolymers were prepared and their properties were confirmed by conductance, differential scanning calorimetry, and X-ray diffraction measurements. The spiropolymer was synthesized from the bicyclic diketone and pentaerythritol. The spiro-polyketal (SP) dissolves lithium perchlorate and the conductivity of the (SP)1.5(LiClO<sub>4</sub>)<sub>1</sub> complex is  $4.24 + 10^{-5}$  S cm<sup>-1</sup> at 30° and  $3.83 + 10^{-4}$  S cm<sup>-1</sup> at 60°.  
IT 391671-11-7P  
RL: POF (Polymer in formulation); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
(preparation and characterization of a new solvent-free polymer electrolyte based on spiroketal structure)  
RN 391671-11-7 CAPLUS  
CN Poly(3''a,6''a-diethyltetrahydropyranospiro[1,3-dioxane-5,5'-(1,3-dioxane-2',2''(1''H)-pentalene]-2,5'-(3''H)-diylidene) (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2000:621158 CAPLUS  
DOCUMENT NUMBER: 133:350356  
TITLE: Nondynamic and Dynamic Kinetic Resolution of Lactones with Stereogenic Centers and Axes: Stereoselective Total Synthesis of Herbertenediol and Mastigophorenones A and B  
AUTHOR(S): Bringmann, Gerhard; Pabst, Thomas; Henschel, Petra; Kraus, Juergen; Peters, Karl; Peters, Eva-Maria; Rycroft, David S.; Connolly, Joseph D.  
CORPORATE SOURCE: Institut fuer Organische Chemie, Universitaet Wuerzburg, Wuerzburg, D-97074, Germany  
SOURCE: Journal of the American Chemical Society (2000), 122(38), 9127-9133  
CODEN: JACSAT; ISSN: 0002-7863  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 133:350356  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The stereoselective total synthesis of the sesquiterpene herbertenediol and of its naturally occurring dimers, mastigophorenes A [(P)-I] and B [(M)-isomer], is described. Following the "lactone concept", the configuration at the biaryl axis was atropo-divergently induced to be P or, optionally, M, by stereocontrolled reductive ring cleavage (diastereomeric ratio up to 97:3) of the configurationally unstable joint biaryl lactone precursor II using the oxazaborolidine-borane system, through dynamic kinetic resolution. Mechanistic considerations of the lactone coupling suggested interference by a methoxy group next to the halogen substituent and led to an improvement of the coupling yield from 39 to 87% to give the lactone III. As a new, likewise highly efficient variant of the lactone method, we report for the first time the-now nondynamic-kinetic resolution of a structurally related, but centrochiral "aliphatic-aromatic" lactone, (rac)-IV. Its highly efficient ( $k_{rel} > 300$ ) enantiomer-differentiating Corey-Bakshi-Shibata reduction delivers the centrochiral building block (R,R)-IV in good chemical yield and with excellent stereochem. purity (enantiomeric excess > 99.9%; enrichment of the starting material). The new synthesis of natural herbertenediol confirms its absolute stereostructure as well as that of its dimers, mastigophorenes A and B.

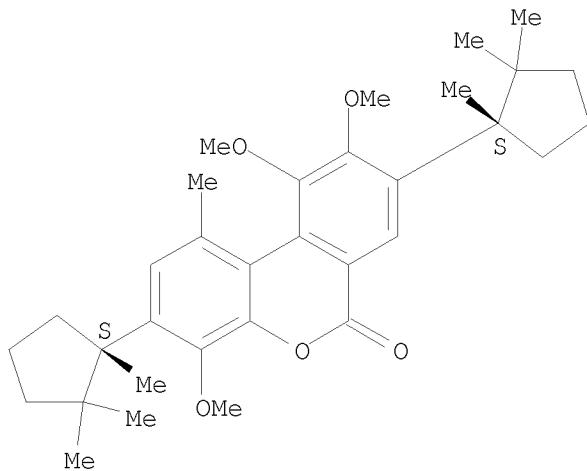
IT 304859-78-7P 305846-95-1P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (nondynamic and dynamic kinetic resolution of lactones with stereogenic centers and axes in stereoselective total synthesis of herbertenediol and mastigophorenes A and B)

RN 304859-78-7 CAPLUS

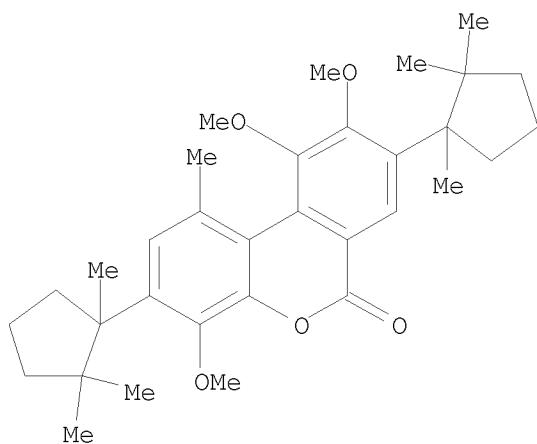
CN 6H-Dibenzo[b,d]pyran-6-one, 4,9,10-trimethoxy-1-methyl-3,8-bis[(1S)-1,2,2-trimethylcyclopentyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 305846-95-1 CAPLUS

CN 6H-Dibenzo[b,d]pyran-6-one, 4,9,10-trimethoxy-1-methyl-3,8-bis[(1S)-1,2,2-trimethylcyclopentyl]-, (3S)- (9CI) (CA INDEX NAME)



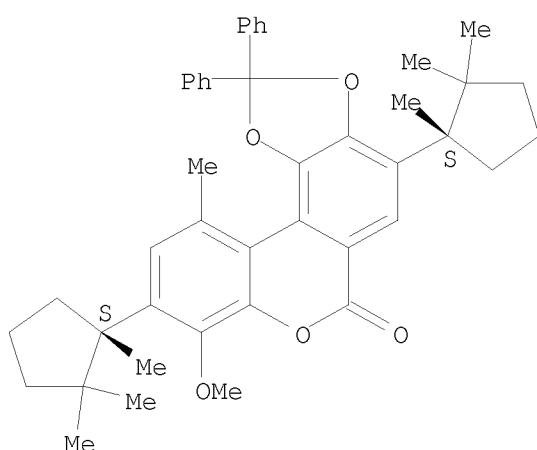
IT 304859-85-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (nondynamic and dynamic kinetic resolution of lactones with stereogenic centers and axes in stereoselective total synthesis of herbertenediol and mastigophorenes A and B)

RN 304859-85-6 CAPLUS

CN 6H-[1]Benzopyrano[4,3-e]-1,3-benzodioxol-6-one,  
 8-methoxy-11-methyl-2,2-diphenyl-4,9-bis[(1S)-1,2,2-trimethylcyclopentyl]-  
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT:

52

THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

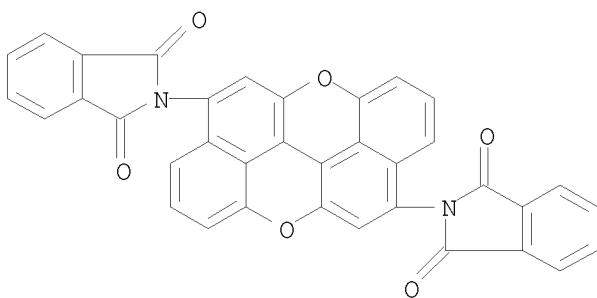
L10 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1933:47144 CAPLUS

DOCUMENT NUMBER: 27:47144

ORIGINAL REFERENCE NO.: 27:4229f-i

TITLE: Dinaphthylene dioxide. II  
 AUTHOR(S): Pummerer, Rudolf; Rieche, Alfred; v. Krudener, Georg;  
                   Pfeiffer, Hans; Prell, Ernst; Tuchmann, Walter;  
                   Wilsing, Heinrich  
 SOURCE: Annalen der Chemie, Justus Liebigs (1933), 503, 40-60  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable  
 AB    cf. C. A. 21, 405. Oxidation of dinaphthylene dioxide (I) with Caro acid in concentrated H<sub>2</sub>SO<sub>4</sub> gives 4,4'-dinaphthone dioxide (II), red-brown, sublimes about 320° but is not melted at 400°; in alkaline hyposulfite there results the Na salt of the 4,4'-di-HO derivative of I, which furnishes a convenient method of purifying II. II also results with CrO<sub>3</sub> in AcOH. II in C<sub>5</sub>H<sub>5</sub>N, AcOH and Zn, warmed until the solution is green and then treated with Ac<sub>2</sub>O, gives the di-Ac derivative of the hydroquinone, C<sub>24</sub>H<sub>14</sub>O<sub>6</sub> yellow. I and Bz<sub>2</sub>O<sub>2</sub> in C<sub>6</sub>H<sub>6</sub> at 60° give a mixture of about 27% of the mono-(III) and 73% of di-benzoxy derivs. (IV), separated by extraction of III with PhCl; III, m. 237°, on alkaline saponification gives the 4-HO derivative of I, yellow (acetate, yellow, sublimes 230°); IV was crystallized from C<sub>6</sub>H<sub>3</sub>Cl<sub>3</sub>; it also results from III and Bz<sub>2</sub>O<sub>2</sub>. III and IV in concentrated H<sub>2</sub>SO<sub>4</sub> give II. II and (m-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>)<sub>2</sub>O<sub>2</sub> in C<sub>6</sub>H<sub>6</sub> give the bis-nitrobenzoate, light brown; the bis- $\alpha$ -naphthoate darkens 180°. 4,2-H<sub>2</sub>NC<sub>10</sub>H<sub>6</sub>OH and C<sub>6</sub>H<sub>4</sub>(CO)<sub>2</sub>O give 86% of 4-phthalimido-2-naphthol (V), m. 242°; PbO<sub>2</sub> in PhCl gives 90% of 4,4'-bisphthalimido-1,1'-binaphthol-(2,2'), yellow; Ag<sub>2</sub>O in boiling PhNO<sub>2</sub> gives a small yield of 4,4'-bisphthalimidodinaphthylene dioxide (VI), yellow. Heating V with CuO in PhNO<sub>2</sub> gives 40% of the dioxide; the binaphthol gives a poorer yield; VI is purified by sublimation between 390-420° and begins to carbonize at 430°. VI and MeOH-KOH give 58% of II.  
 IT    854868-82-9P, peri-Xanthenoxanthene, 4,10-diphthalimido-  
 RL: PREP (Preparation)  
       (preparation of)  
 RN    854868-82-9 CAPLUS  
 CN    peri-Xanthenoxanthene, 4,10-diphthalimido- (3CI) (CA INDEX NAME)



=> log h			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	47.83	412.55	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	

	ENTRY	SESSION
CA SUBSCRIBER PRICE	-7.20	-8.00

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	47.83	412.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.20	-8.00

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	47.83	412.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.20	-8.00

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DICTIONARY FILE UPDATES: 19 DEC 2008 HIGHEST RN 1087349-26-5

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=>

Uploading C:\Program Files\Stnexp\Queries\10574563\Struc 4.str



```
chain nodes :  
2 6  
ring nodes :  
3 5 7  
chain bonds :  
2-3 5-6  
ring bonds :  
3-5 3-7 5-7  
exact/norm bonds :  
2-3 3-5 3-7 5-6 5-7
```

G1:Cb,Cy,Hy

Match level :  
2:CLASS 3:CLASS 5:CLASS 6:CLASS 7:Atom

10574563.trn

L11 STRUCTURE UPLOADED

=> d  
L11 HAS NO ANSWERS  
L11 STR  
G1——G1——G1——G1  
| \ / |  
| A |  
G1 Cb,Cy,Hy

Structure attributes must be viewed using STN Express query preparation.

=> l11  
GENERIC GROUP NOT VALID HERE  
Generic groups may not be used in these circumstances:  
1. Any generic group node (e.g., Hy) in a ring.  
2. An Ak node attached to another Ak node.  
3. An Ak node with three or more attachments where  
one or more of the attachments is to a C node.

=> log h

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.92	413.47
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.00

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